## Patent Claims

1. Method of producing a calibration wafer having at least one predetermined optical characteristic, in particular a predetermined emissivity, with the following method steps: provision of a wafer of a semiconductor material; and processing of the bulk material of the wafer for adjusting the predetermined optical characteristic by a doping with foreign atoms and/or a generation of lattice defects.

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 Method according to claim 1, characterized in that the doping with foreign atoms and/or the generation of lattice defects is effected essentially homogeneously over the bulk material of the wafer.

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 Method according to claim 1 or 2, characterized in that the doping with foreign atoms and/or the generation of lattice defects is effected in a predetermined region, especially a layer of the wafer

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4. Method according to claim 3, characterized in that a surface layer of the wafer is doped.

5.	Method according to one of the claims 1 to 4, characterized in
	that the doping is effected with boron, phosphorous and/or
	arsenic as foreign atoms.

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 Method according to one of the claims 1 to 5, characterized in that the establishment is effected essentially exclusively via the doping and/or the establishment of the lattice defects.

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7. Method according to one of the claims 1 to 6, characterized in that the wafer is doped with a density of foreign atoms lying between 10<sup>16</sup> and 10<sup>19</sup> foreign atoms per cubic centimeter.

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8. Method according to one of the claims 1 to 5, characterized in that the establishment is effected at least partially via the selection of the thickness of the wafer.

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9. Method according to one of the preceding claims, characterized in that the emissivity is established to a value of between 0.25 and 0.8.

- 10. Method according to one of the preceding claims, characterized in that a reflectivity of the wafer is established to a value of between 0.2 and 0.8.
- 11. Method according to one of the preceding claims, characterized in that the wafer is additionally coated to adjust the optical characteristic.

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12. Method according to claim 11, characterized in that the wafer is coated with cobalt.